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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/613,166	07/03/2003	Adam K. Kolawa	50283/RRT/P396	9159
23363 75	90 07/27/2006	,	EXAMINER	
CHRISTIE, PARKER & HALE, LLP PO BOX 7068			TECKLU, ISAAC TUKU	
PASADENA, CA 91109-7068			ART UNIT	PAPER NUMBER
			2192	
			DATE MAILED: 07/27/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/613,166	KOLAWA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Isaac T. Tecklu	2192			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tirn will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE.	I. nely filed the mailing date of this communication. D. (35 U.S.C. & 133)			
Status					
1)⊠ Responsive to communication(s) filed on <u>03 Ju</u> 2a)□ This action is <b>FINAL</b> . 2b)⊠ This	<i>ly 2006</i> . action is non-final.				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.			
Disposition of Claims					
4)  Claim(s) 1-41 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw  5)  Claim(s) is/are allowed.  6)  Claim(s) 1-41 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/or  Application Papers  9)  The specification is objected to by the Examiner  10)  The drawing(s) filed on 03 July 2003 is/are: a)  Applicant may not request that any objection to the december of the december o	election requirement.  ∴  ☐ accepted or b)⊠ objected to be drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the priori application from the International Bureau</li> <li>* See the attached detailed Office action for a list of</li> </ul>	have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date 07/03/2003.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:				

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#### **DETAILED ACTION**

1. This action is responsive to the application filed on 07/03/2003.

2. Claims 1-41 have been examined.

#### Oath/Declaration

3. The office acknowledges receipt of a properly signed oath/declaration filed on 11/03/2003.

## **Drawings**

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: e.g. Fig. 1B, element 12 and Fig. 2B, "Run Jtest". Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

# Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claims 1-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cheng et al. (US 2004/0143819 A1) in view of Chen et al. (US 2005/0102660 A1).

## Per claim 1

Cheng discloses a method for automatically preventing errors in computer software, the method comprising:

executing a plurality of software verification tools to verify the computer software (in paragraph [0011] "... executing the test plan execution codes ...,") wherein each of the plurality of software verification tools has a verification scope and automatically generates one or more test cases (e.g. Fig. 1, element 60 and related text);

generating verification results responsive to executing the plurality of software verification tools and the automatically generated test cases (in paragraph[0041] "... generating the test result ...");

processing the verification results for generating an objective criterion of quality of the computer software (in paragraph[0012] "... test report..."); and

customizing the verification scope of one or more of the plurality of verification tools responsive to the objective criterion of quality of the computer software (in paragraph [0084] "... modifying the entries in the test-result ...").

Cheng does not explicitly disclose storing the computer software in a code repository. However Chen in a analogous art discloses storing the software package in a software repository (e.g. Fig.1, element 113 and related text). Therefore it would have been obvious to one skilled in the art at the time of the invention was made to combine Cheng and Chen for subsequent retrieval of the software as once suggested by Chen (in paragraph [0041])

#### Per claim 2

Cheng discloses:

The method of claim 1 further comprising providing a common configuration file for the plurality of verification tools (in paragraph [0026] "... testing execution files...").

## Per claim 3

Cheng discloses:

The method of claim 2, wherein the step of customizing the verification scope comprises modifying the common configuration file responsive to the objective criterion of quality of the computer software (in paragraph [0084] "... modifying the entries in the test-result ...").

## Per claim 4

Cheng discloses:

The method of claim 2 further comprising modifying a portion of the common configuration file specific to one of the plurality of verification tools responsive to the objective criterion of quality of the computer software (in paragraph [0026] "... testing execution files...").

# Per claim 5

Cheng discloses:

The method of claim 2 further comprising modifying a portion of the common configuration file specific to one of a plurality of software developers responsive to the objective criterion of quality of the computer software (in paragraph [0026] "... testing execution files...").

### Per claim 6

Cheng discloses:

The method of claim 1, wherein the step of processing the verification results for generating an objective criterion of quality of the computer software comprises formulating the

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verification results in a confidence factor represented by the equation: C=p/t.times.100, where p is number of successful test cases and t is total number of test cases (e.g. Fig. 1, element 300

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and related text).

Per claim 7

Cheng discloses:

The method of claim 1, wherein each portion of the computer software being developed by a software developer of a plurality of software developers, and the verification results include a plurality of objective criteria each of the plurality of objective criteria corresponding to quality of a respective portion of the computer software developed by each software developer of the plurality of software developers (e.g. Fig. 1, element 60 and related text).

Per claim 8

Cheng discloses:

The method of claim 7 further comprising providing a common configuration file for the plurality of verification tools; and modifying the common configuration file responsive to one or more objective criteria corresponding to quality of a respective portion of the computer software developed by each software developer (in paragraph [0084] "... modifying the entries in the test-result ...").

Per claim 9

Cheng discloses:

The method of claim 7 further comprising verifying a first portion of the computer software developed by a first developer of the plurality of software developers using the plurality of verification tools, before the computer software is stored in the code repository (in paragraph[0041] "... generating the test result ...").

Per claim 10

Cheng discloses:

The method of claim 9 further comprising allowing storing the first portion of the computer software in the code repository only if result of verification of the first portion meets a set standard (in paragraph [0028]).

## Per claim 11

Cheng discloses:

The method of claim 10 further comprising modifying the set standard responsive to the objective criterion of quality of the computer software (in paragraph [0084] "... modifying the entries in the test-result ...").

#### Per claim 12

Cheng discloses:

The method of claim 10, wherein the set standard is common to each of the plurality of software developers (in paragraph [0044]).

# Per claim 13

Cheng discloses:

The method of claim 10, wherein the set standard is unique to at least one of the plurality of software developers (in paragraph [0045]).

### Per claim 14

This is the system version of the claimed method discussed above (Claim 1), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

# Per claim 15

This is the system version of the claimed method discussed above (Claim 2), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

# Per claim 16

This is the system version of the claimed method discussed above (Claim 3), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

#### Per claim 17

This is the system version of the claimed method discussed above (Claim 4), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

# Per claim 18

This is the system version of the claimed method discussed above (Claim 5), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

# Per claim 19

This is the system version of the claimed method discussed above (Claim 6), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

#### Per claim 20

This is the system version of the claimed method discussed above (Claim 7), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

### Per claim 21

This is the system version of the claimed method discussed above (Claim 8), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

#### Per claim 22

This is the system version of the claimed method discussed above (Claim 9), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

#### Per claim 23

This is the system version of the claimed method discussed above (Claim 10), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

#### Per claim 24

This is the system version of the claimed method discussed above (Claim 11), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

#### Per claim 26

This is the system version of the claimed method discussed above (Claim 13), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

## Per claim 27

This is another method version of the claimed method discussed above (Claim 1), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

### Per claim 28

This is another method version of the claimed method discussed above (Claim 3), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

## Per claim 29

This is another method version of the claimed method discussed above (Claim 4), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

# Per claim 30

This is another method version of the claimed method discussed above (Claim 5), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

# Per claim 31

This is another method version of the claimed method discussed above (Claim 6), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

# Per claim 33

Cheng discloses:

The method of claim 32, wherein the verification results include a plurality of objective each of the plurality of objective criteria corresponding to quality of a respective portion of the computer software developed by a respective software developer of the plurality of software developers (in paragraph [0012] "... test report...")

### Per claim 34

This is another method version of the claimed method discussed above (Claim 8), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

## Per claim 35

This is another method version of the claimed method discussed above (Claim 9), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

### Per claim 36

This is another method version of the claimed method discussed above (Claim 10), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

### Per claim 37

This is another method version of the claimed method discussed above (Claim 11), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

#### Per claim 38

This is another method version of the claimed method discussed above (Claim 12), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

#### Per claim 39

This is another method version of the claimed method discussed above (Claim 13), wherein all claim limitations have been addressed and/or covered in cited areas as set forth above. Thus, accordingly, these claims are also obvious.

### Per claim 40

#### Cheng discloses:

The method of claim 34 wherein the step of modifying the configuration file comprises modifying the configuration file by an architect with appropriate access right to edit the configuration file (in paragraph [0053])

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Per claim 41

This is another method version of the claimed method discussed above (Claim 1), wherein all claim limitations have been addressed and/or covered in cited areas as set forth

above. Thus, accordingly, these claims are also obvious.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Isaac T. Tecklu whose telephone number is (571) 272-7957. The

examiner can normally be reached on M-TH 9:300A - 8:00P.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tuan Q. Dam can be reached on (571) 272-3695. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AN DAM SUPERVISORY PATENT EXAMINER

Patent Examiner

Art Unit 2192

Isaac Tecklu